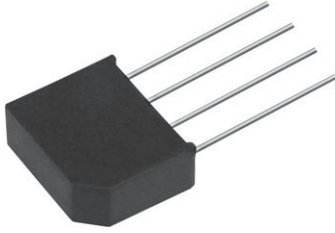


Single Phase Rectifier Bridge, 2 A



D-44

FEATURES

- Suitable for printed circuit board mounting
- Compact construction
- High surge current capability
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

DESCRIPTION

A 2 A single phase encapsulated bridge rectifier consisting of four single diodes connected as a full bridge. They are intended for general applications in industrial and consumer equipment.

PRODUCT SUMMARY	
I_o	2 A
V_{RRM}	50 to 1000 V
Package	D-44
Circuit	Single phase bridge

MAJOR RATINGS AND CHARACTERISTICS			
SYMBOL	CHARACTERISTICS	VALUES	UNITS
I_o		2.0	A
I_{FSM}	50 Hz	60	A
	60 Hz	63	
I^2t	50 Hz	18	A ² s
	60 Hz	16	
V_{RRM}		50 to 1000	V
T_J		-40 to 150	°C

ELECTRICAL SPECIFICATIONS

VOLTAGE RATINGS			
PART NUMBER	V_{RRM} , MAXIMUM REPETITIVE PEAK REVERSE VOLTAGE (V)	V_{RSM} , MAXIMUM NON-REPETITIVE PEAK REVERSE VOLTAGE (V)	V_{RMS} , MAXIMUM RECOMMENDED RMS SUPPLY VOLTAGE (V)
VS-2KBP005	50	50	20
VS-2KBP02	200	200	80
VS-2KBP04	400	400	125
VS-2KBP06	600	600	250
VS-2KBP08	800	800	380
VS-2KBP10	1000	1000	500

FORWARD CONDUCTION					
PARAMETER	SYMBOL	TEST CONDITIONS		VALUES	UNITS
Maximum DC output current	I_o	$T_A = 50\text{ }^\circ\text{C}$, resistive or inductive load		2.0	A
		$T_A = 50\text{ }^\circ\text{C}$, capacitive load		1.8	
Maximum peak one cycle, non-repetitive surge current	I_{FSM}	$t = 10\text{ ms}$, 20 ms	Following any rated load condition and with rated V_{RRM} reapplied	60	A
		$t = 8.3\text{ ms}$, 16.7 ms		63	
Maximum I^2t capability for fusing	I^2t	$t = 10\text{ ms}$	100 % V_{RRM} reapplied	Initial $T_J = T_J$ maximum	A ² s
		$t = 8.3\text{ ms}$			
		$t = 10\text{ ms}$	No voltage reapplied	26	
		$t = 8.3\text{ ms}$		23	
Maximum $I^2\sqrt{t}$ capability for fusing	$I^2\sqrt{t}$	$t = 0.1$ to 10 ms, no voltage reapplied		255	A ² \sqrt{s}
Maximum peak forward voltage per diode	V_{FM}	$I_{FM} = 1\text{ A}$, $T_J = 25\text{ }^\circ\text{C}$		1.0	V
Typical peak reverse leakage current per diode	I_{RM}	$T_J = 25\text{ }^\circ\text{C}$, 100 % V_{RRM}		10	μA
		$T_J = 150\text{ }^\circ\text{C}$, 100 % V_{RRM}		1.0	mA
Operating frequency range	f			40 to 1000	Hz

THERMAL AND MECHANICAL SPECIFICATIONS			
PARAMETER	SYMBOL	VALUES	UNITS
Operating junction and storage temperature range	T_J, T_{Stg}	-40 to 150	$^\circ\text{C}$
Approximate weight		4	g
		0.14	oz.

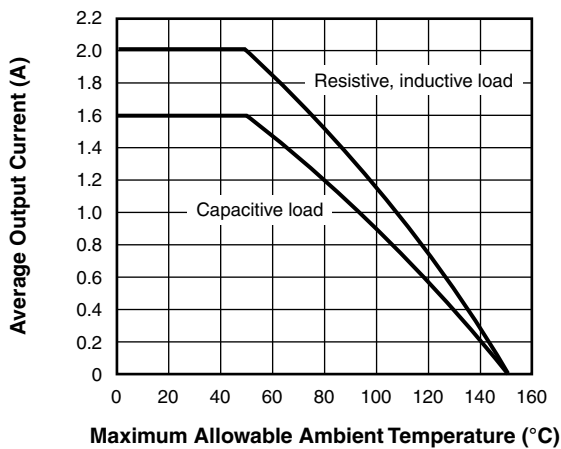


Fig. 1 - Ambient Temperature Ratings

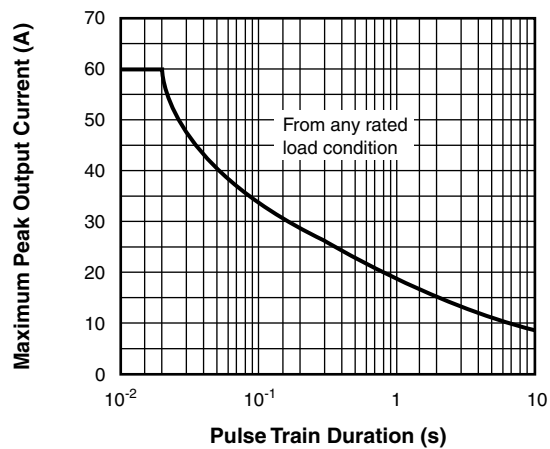
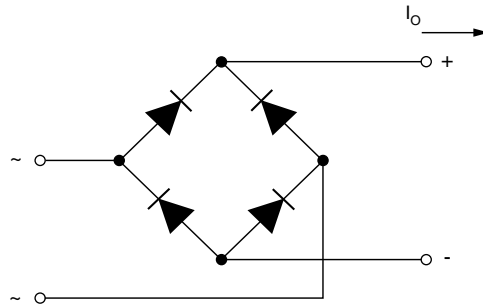


Fig. 2 - Non-Repetitive Surge Ratings



CIRCUIT CONFIGURATION

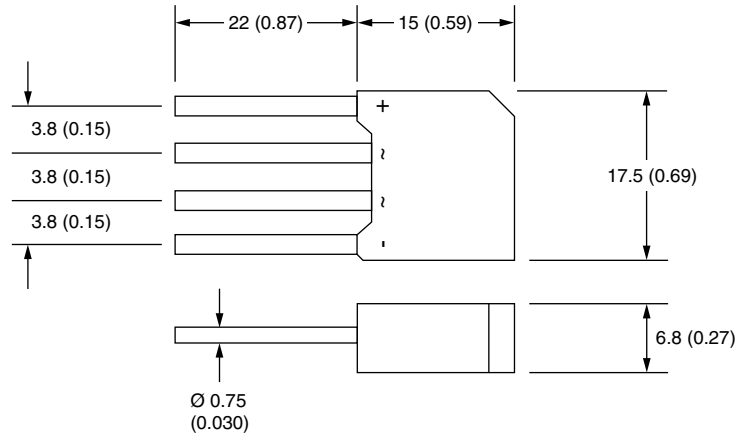


LINKS TO RELATED DOCUMENTS

Dimensions	www.vishay.com/doc?95329
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D-44

DIMENSIONS in millimeters (inches)





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- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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